

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
27 January 2005 (27.01.2005)

PCT

(10) International Publication Number
WO 2005/009033 A1

(51) International Patent Classification⁷: H04N 5/46, 5/44

Daniel, Mark [US/US]; 13790 Laredo Drive, Carmel, IN 46032 (US).

(21) International Application Number:

PCT/US2004/021800

(74) Agents: TRIPOLI, Joseph, S. et al.; c/o Thomson Licensing Inc., 2 Independence Way, Suite 200, Princeton, NJ 08540 (US).

(22) International Filing Date: 8 July 2004 (08.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/487,213 14 July 2003 (14.07.2003) US

(71) Applicant (for all designated States except US): THOMSON LICENSING S.A. [FR/FR]; 46, Quai A. Le Gallo, F-92648 Boulogne (FR).

(72) Inventors; and

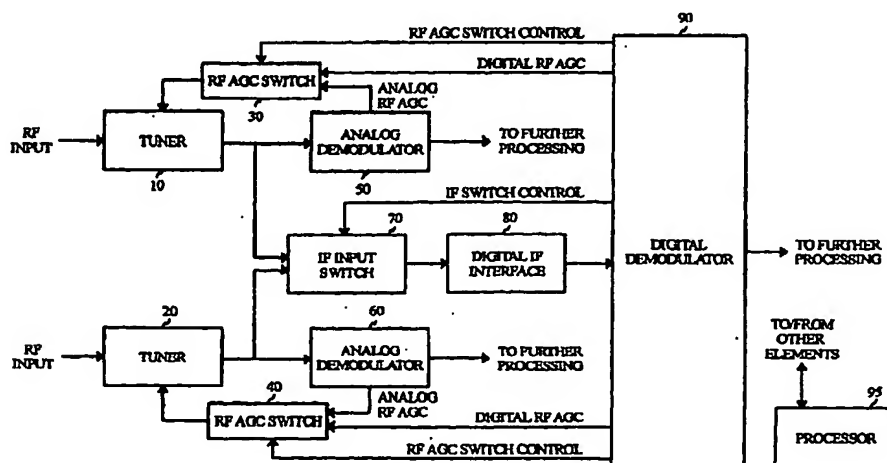
(75) Inventors/Applicants (for US only): ECOFF, Clint, Alan [US/US]; 5836 N. Rural Street, Indianapolis, IN 46220 (US). GRUBBS, Gary, Dean [US/US]; 8554 Douglaston Court, Indianapolis, IN 46234 (US). HUTCHINSON,

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GI, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,

[Continued on next page]

(54) Title: APPARATUS AND METHOD FOR PROCESSING ANALOG AND DIGITAL SIGNALS FROM MULTIPLE SIGNAL SOURCES



(57) Abstract: An apparatus (100) such as a television signal receiver employs an efficient and cost-effective signal processing architecture which enables, among other things, the reception and processing of both analog and digital signals from multiple signal sources, such as but not limited to, terrestrial and cable signal sources. According to an exemplary embodiment, the apparatus (100) includes a first tuner (10) operative to generate a first IF signal corresponding to a first RF signal. A first demodulator (50) is operative to generate a first demodulated signal corresponding to the first IF signal. A second tuner (20) is operative to generate a second IF signal corresponding to a second RF signal. A second demodulator (60) is operative to generate a second demodulated signal corresponding to the second IF signal. A third demodulator (90) is operative to generate a third demodulated signal corresponding to one of the first and second IF signals.



WO 2005/009033 A1



SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NI, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *with international search report*